1 ABSTRACT OF THE DISCLOSURE

2	An uninterruptible power supply (UPS) system and control method
3	thereof is provided. The system contains a plurality of UPS modules connected in
4	parallel, and each module is equipped with full uninterruptible power supply
5	capabilities, and redundant control logic and functional capabilities for self-
6	initiated role detection, master arbitration and parallel processing. The UPS
7	system is self-initialized through a master arbitration process to elect a virtual
8	master among the peers for maintaining inter-unit signaling between parallel
9	UPS modules and controlling the parallel operation. If the virtual master is failed,
10	other UPS modules will initiate the role detection and master arbitration to re-
11	elect a new virtual master. Parallel operation is accomplished without any
12	external controller; the system can be operated with only one UPS module;
13	distribution of adequate resource to each module is properly arranged, thus the
14	risks of system-level single-point failure are much reduced.